

FIG. 1 PRIOR ART

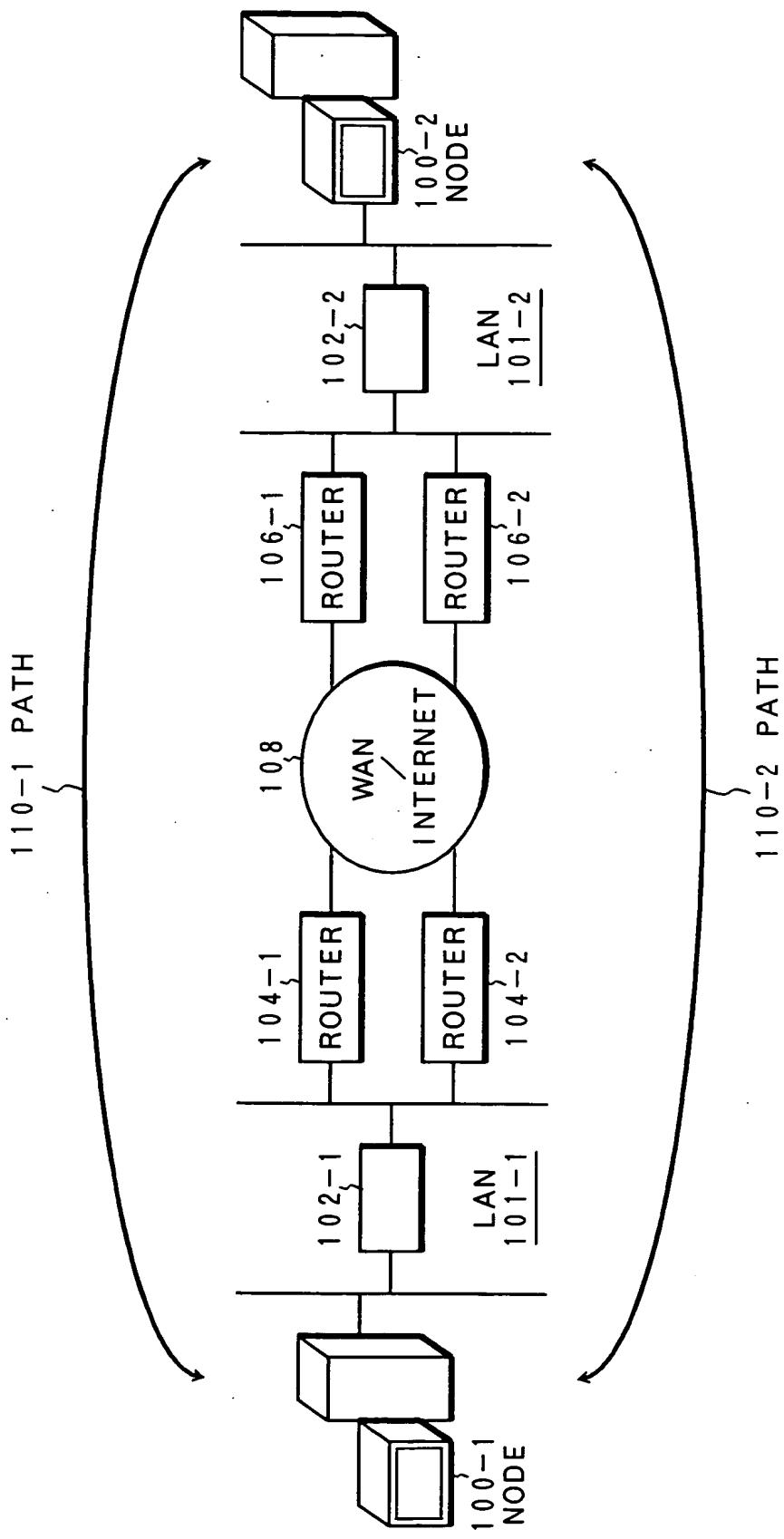


FIG. 2 PRIOR ART

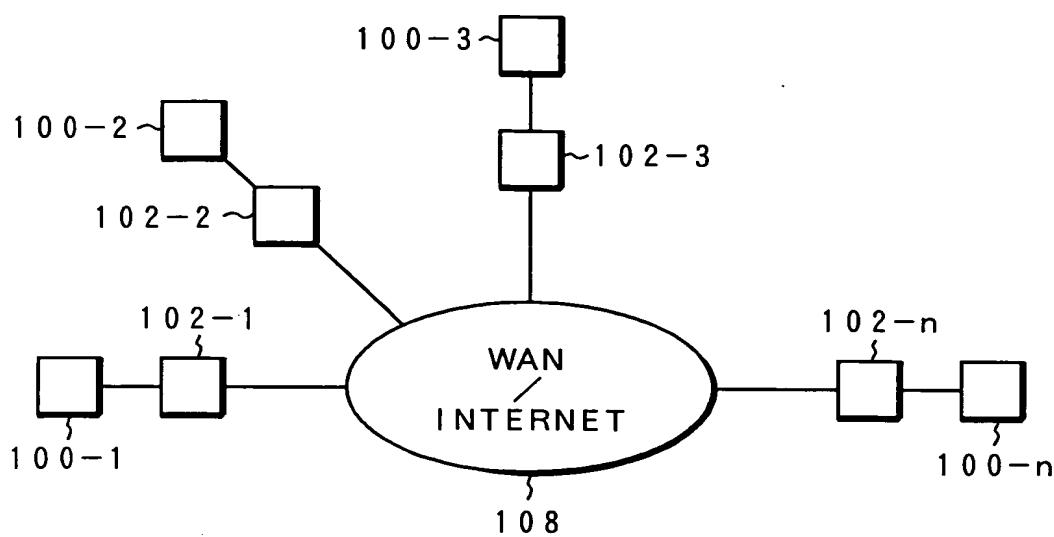


FIG. 3

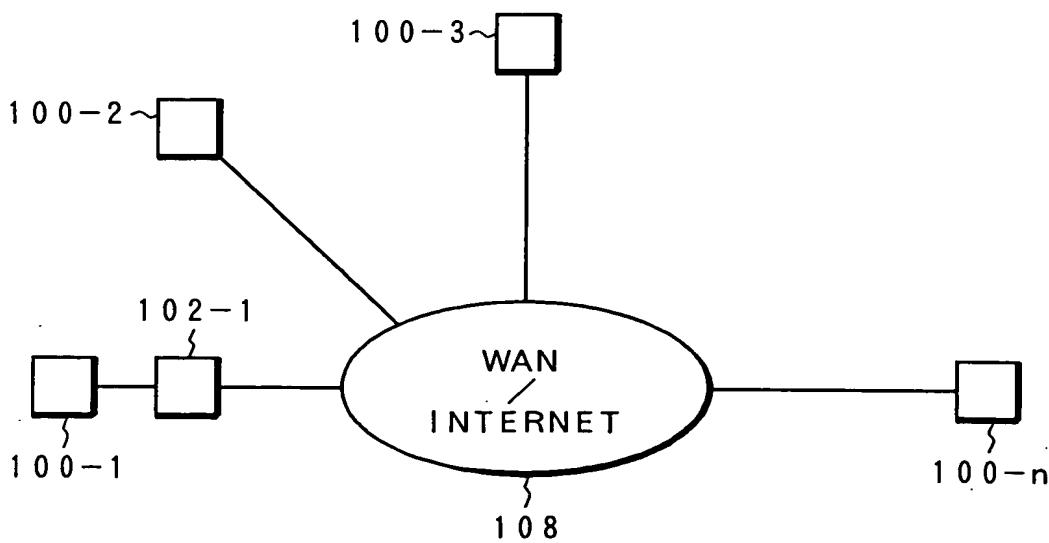


FIG. 4

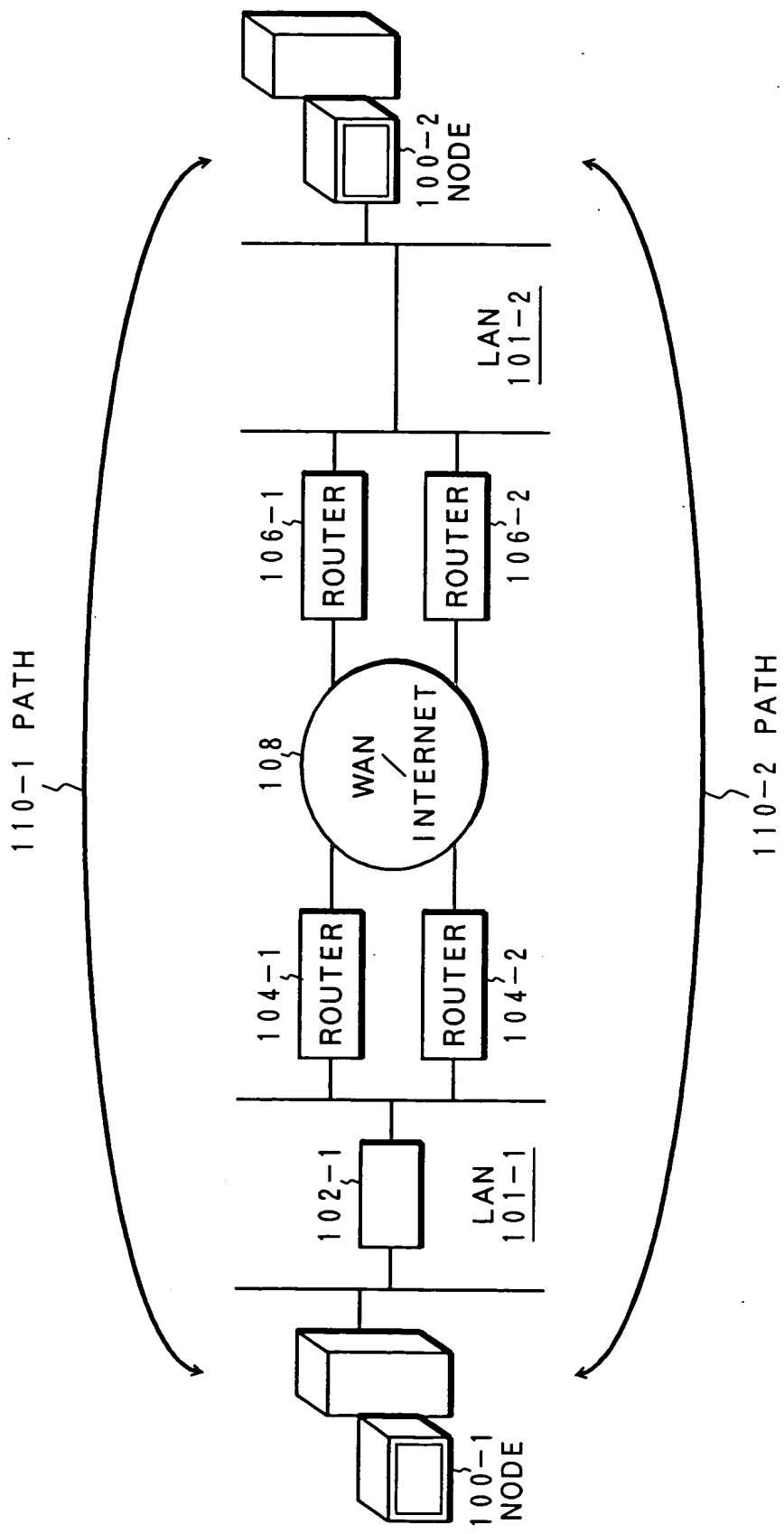


FIG. 5

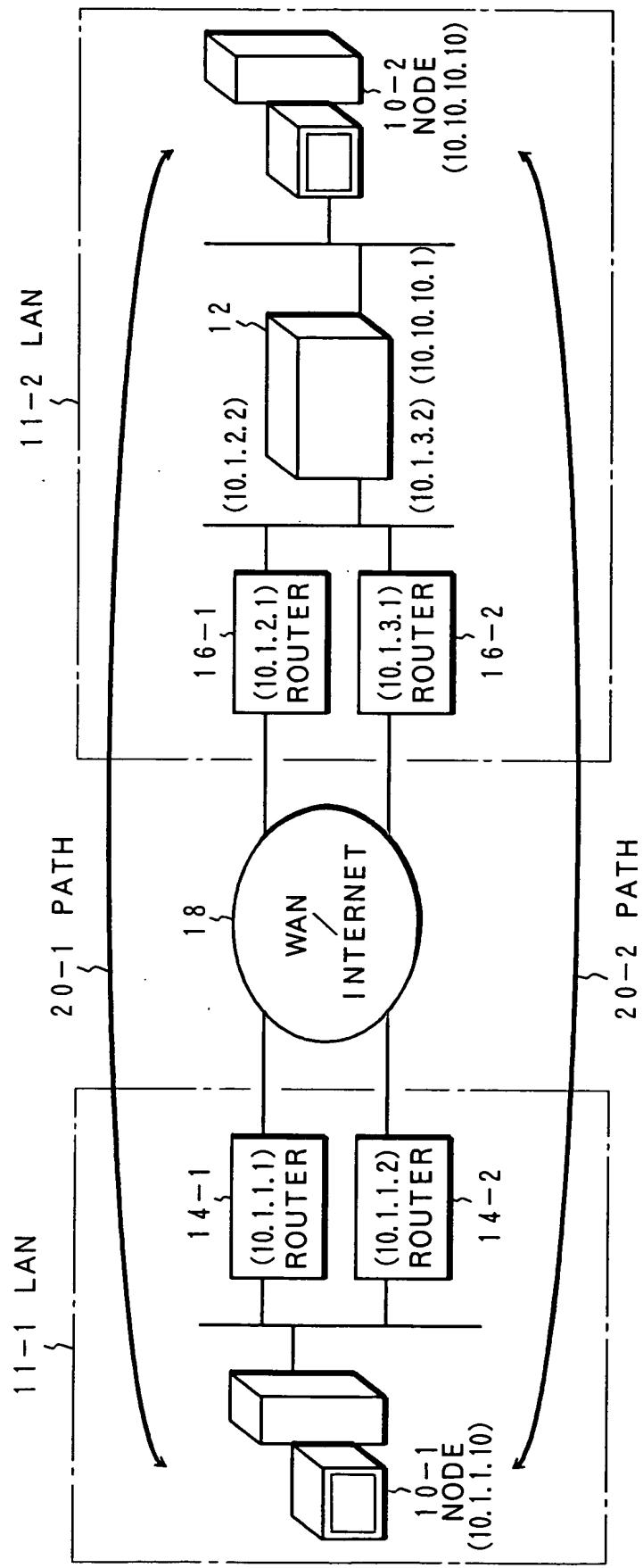


FIG. 6

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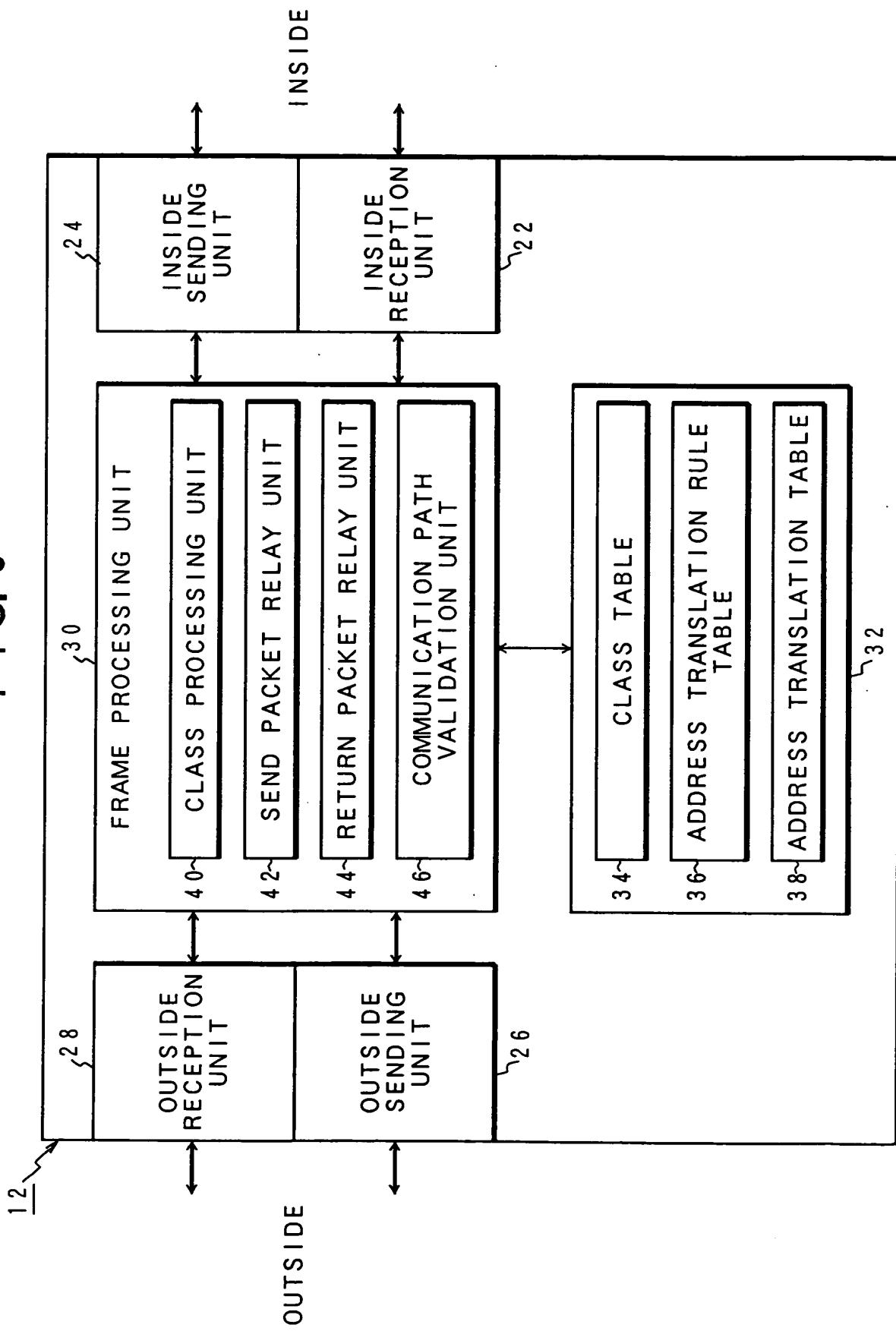


FIG. 7

 34 CLASS TABLE

CLASS NAME	PROTOCOL	TYPE	INSIDE		OUTSIDE		STATUS
			ADDRESS	PORT	ADDRESS	PORT	
BUSINESS	TCP		ALL	472	ALL	ALL	FAIR
DEFAULT	ALL		ALL	ALL	ALL	ALL	FAIR

FIG. 8

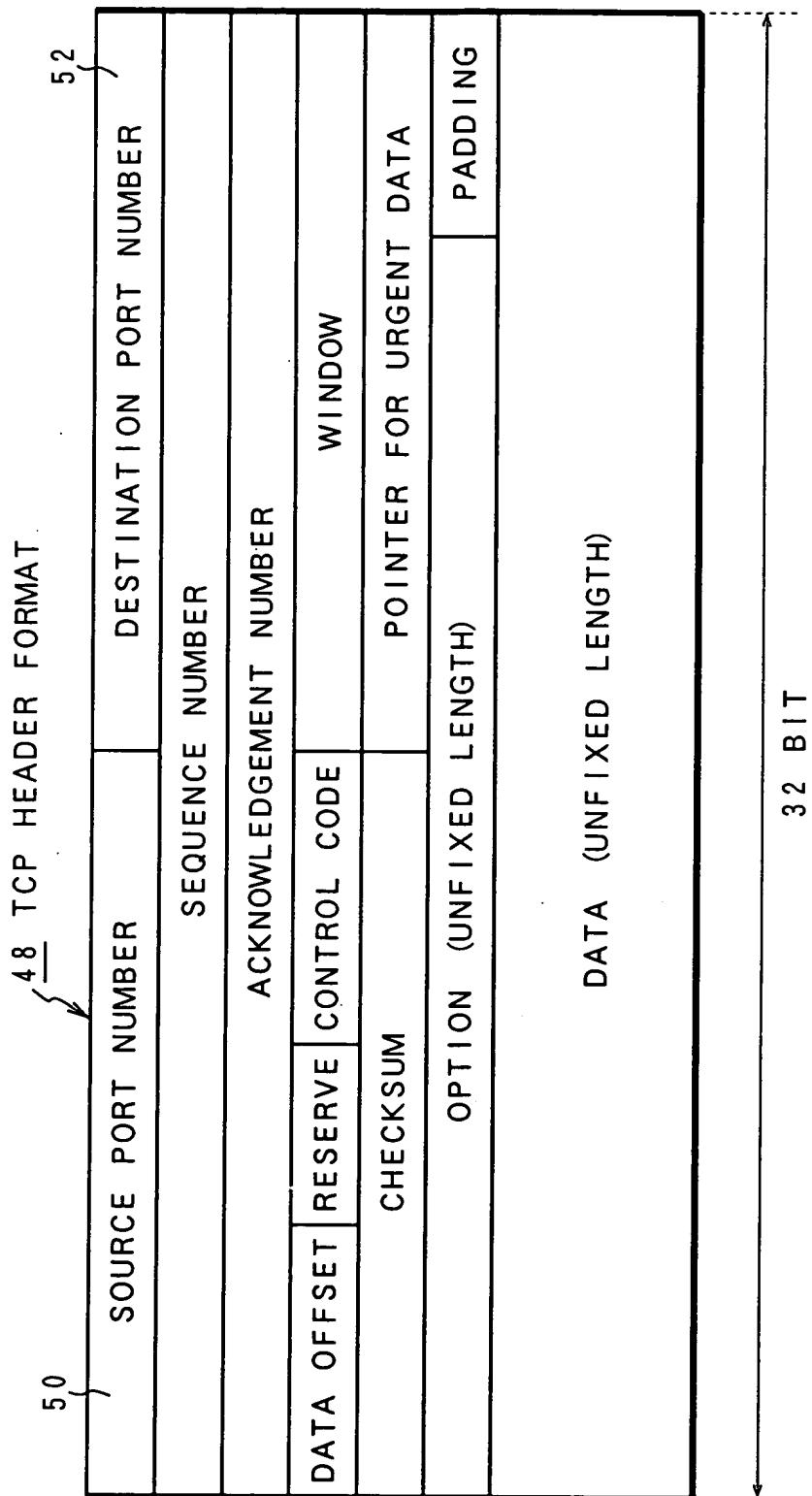


FIG. 9

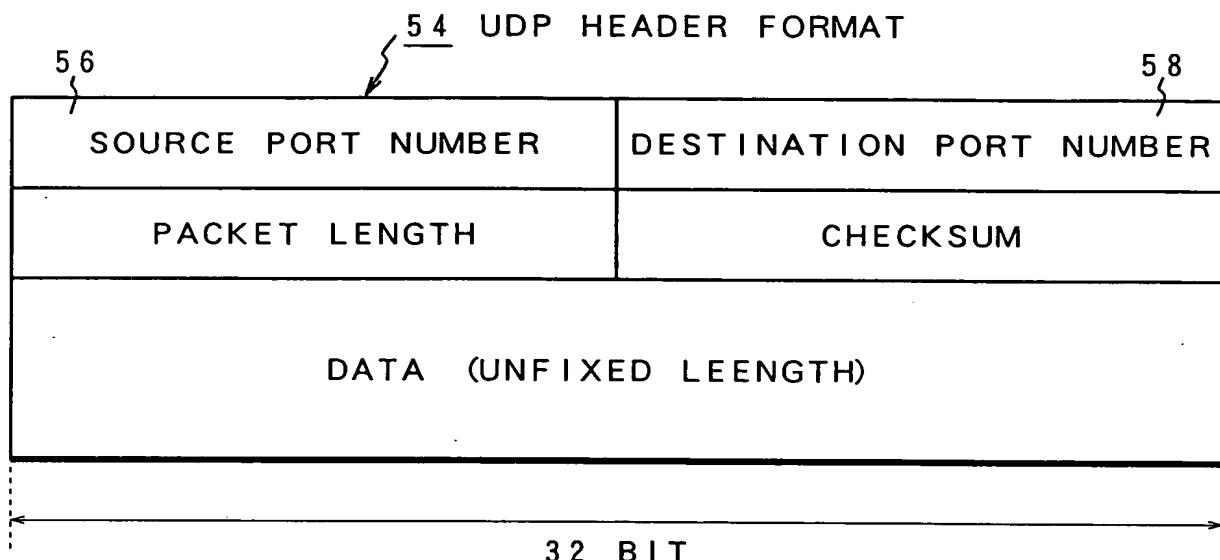


FIG. 10

36 ADDRESS TRANSLATION
RULE TABLE

CLASS NAME	ADDRESS TRANSLATION	GATEWAY
BUSINESS	10. 1. 2. 0	10. 1. 2. 1
DEFAULT	10. 1. 3. 0	10. 1. 3. 1

FIG. 11

38 ADDRESS TRANSLATION TABLE

PROTOCOL TYPE	PRE-TRANSLATION		POST-TRANSLATION	
	ADDRESS	PORT	ADDRESS	PORT
TCP	10. 10. 10. 10	5000	10. 1. 2. 10	2000
UDP	10. 10. 10. 11	6000	10. 1. 3. 11	2001
• • •	• • •	• • •	• • •	• • •

FIG. 12

ADDRESS CONFIGURATION

INTERFACE	ADDRESS	NETWORK MASK
NODE 10-1	10. 1. 1. 0	255. 255. 255. 0
ROUTER 14-1 (LAN SIDE)	10. 1. 1. 1	255. 255. 255. 0
ROUTER 14-2 (LAN SIDE)	10. 1. 1. 2	255. 255. 255. 0
ROUTER 16-1 (LAN SIDE)	10. 1. 2. 1	255. 255. 255. 0
ROUTER 16-2 (LAN SIDE)	10. 1. 3. 1	255. 255. 255. 0
APPARATUS 12 (OUTSIDE)	10. 1. 2. 2	255. 255. 255. 0
APPARATUS 12 (OUTSIDE)	10. 1. 3. 2	255. 255. 255. 0
APPARATUS 12 (INSIDE)	10. 10. 10. 1	255. 255. 255. 0
NODE 10-2	10. 10. 10. 0	255. 255. 255. 0

- ROUTER SIDE INTERFACE OF APPARATUS 12 IS NAMED OUTSIDE AND NODE 10-2 SIDE INTERFACE THEREOF IS NAMED INSIDE.

FIG. 13A

ROUTER 14-1 ROUTING TABLE

DESTINATION SUBNETWORK	MASK	GATEWAY
10. 1. 1. 0	255. 255. 255. 0	DIRECT (DIRECT CONNECTION)
10. 1. 2. 0	255. 255. 255. 0	ROUTER 16-1

FIG. 13B

ROUTER 14-2 ROUTING TABLE

DESTINATION SUBNETWORK	MASK	GATEWAY
10. 1. 1. 0	255. 255. 255. 0	DIRECT (DIRECT CONNECTION)
10. 1. 3. 0	255. 255. 255. 0	ROUTER 16-2

FIG. 13C

ROUTER 16-1 ROUTING TABLE

DESTINATION SUBNETWORK	MASK	GATEWAY
10. 1. 2. 0	255. 255. 255. 0	DIRECT (DIRECT CONNECTION)
10. 1. 1. 0	255. 255. 255. 0	ROUTER 14-1

FIG. 13D

ROUTER 16-2 ROUTING TABLE

DESTINATION SUBNETWORK	MASK	GATEWAY
10. 1. 3. 0	255. 255. 255. 0	DIRECT (DIRECT CONNECTION)
10. 1. 1. 0	255. 255. 255. 0	ROUTER 14-2

FIG. 13E

NODE 10-1 ROUTING TABLE

DESTINATION SUBNETWORK	MASK	GATEWAY
10. 1. 1. 0	255. 255. 255. 0	DIRECT (DIRECT CONNECTION)
10. 1. 2. 0	255. 255. 255. 0	10. 1. 1. (ROUTER 14-1)
10. 1. 3. 0	255. 255. 255. 0	10. 1. 1. 2 (ROUTER 14-2)

FIG. 13F

NODE 10-2 ROUTING TABLE

DESTINATION SUBNETWORK	MASK	GATEWAY
10. 10. 10. 0	255. 255. 255. 0	DIRECT (DIRECT CONNECTION)
0. 0. 0 (DEFAULT)	0. 0. 0	10. 10. 1 (APPARATUS 12)

FIG. 14

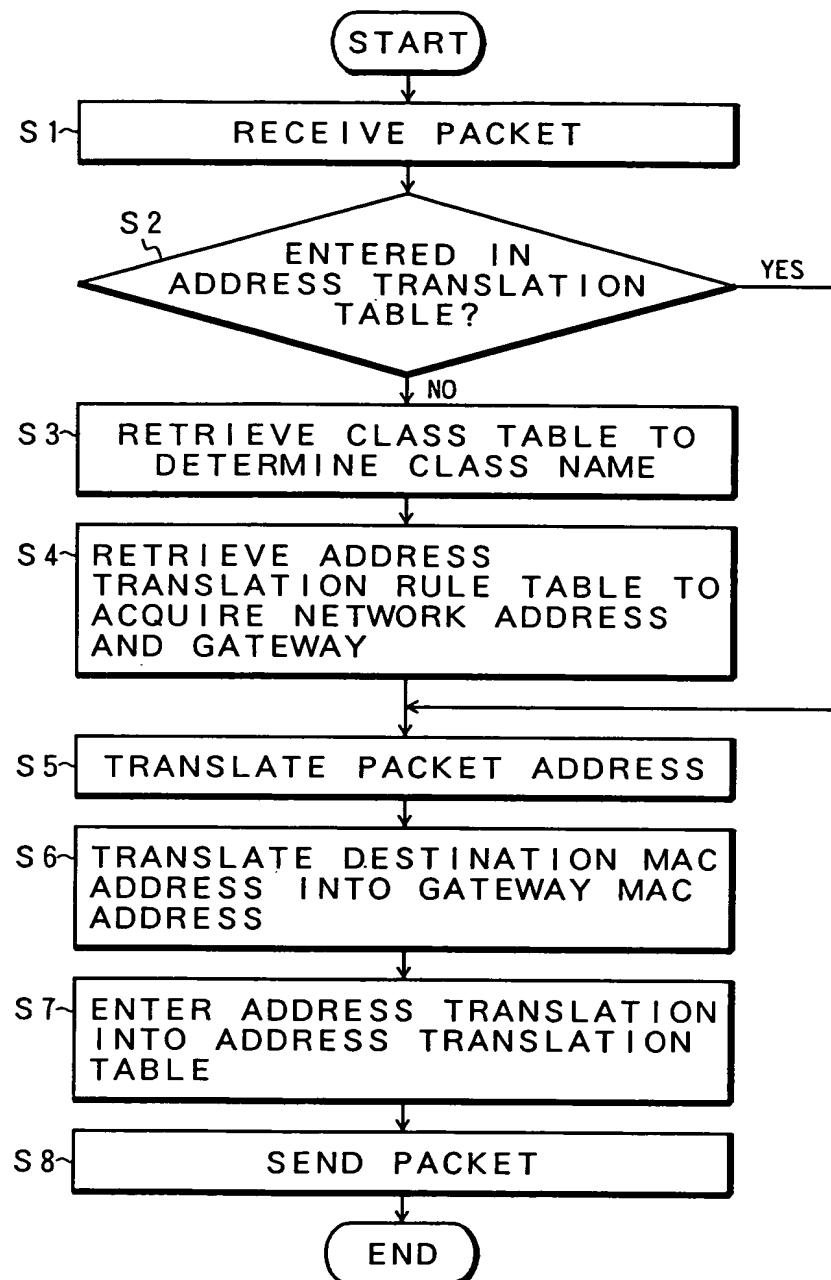


FIG. 15

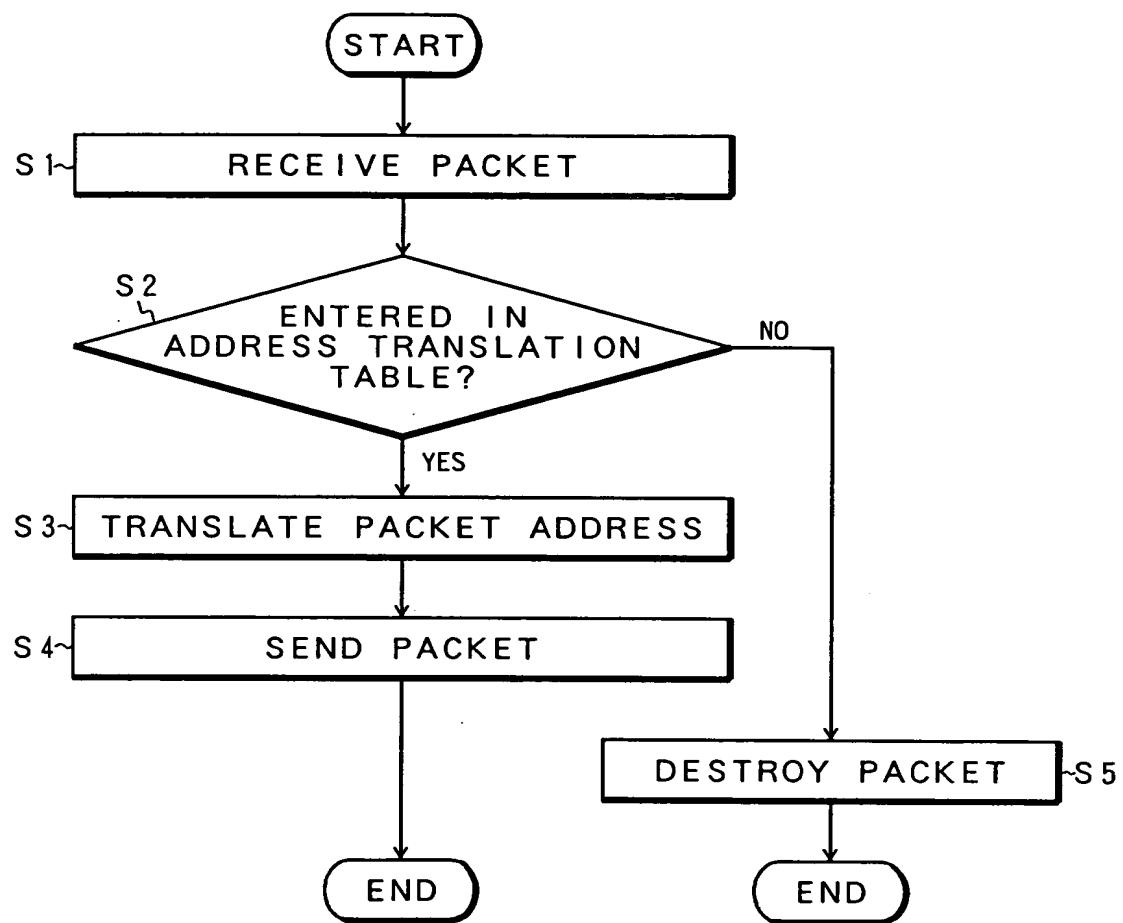


FIG. 16

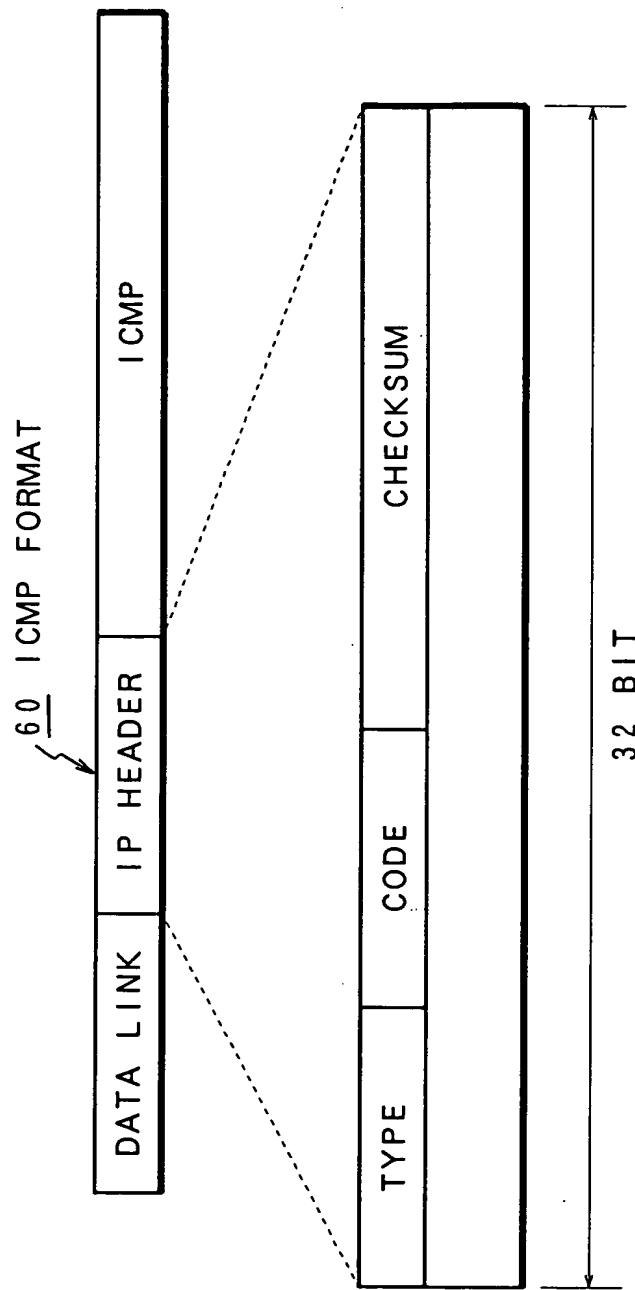


FIG. 17

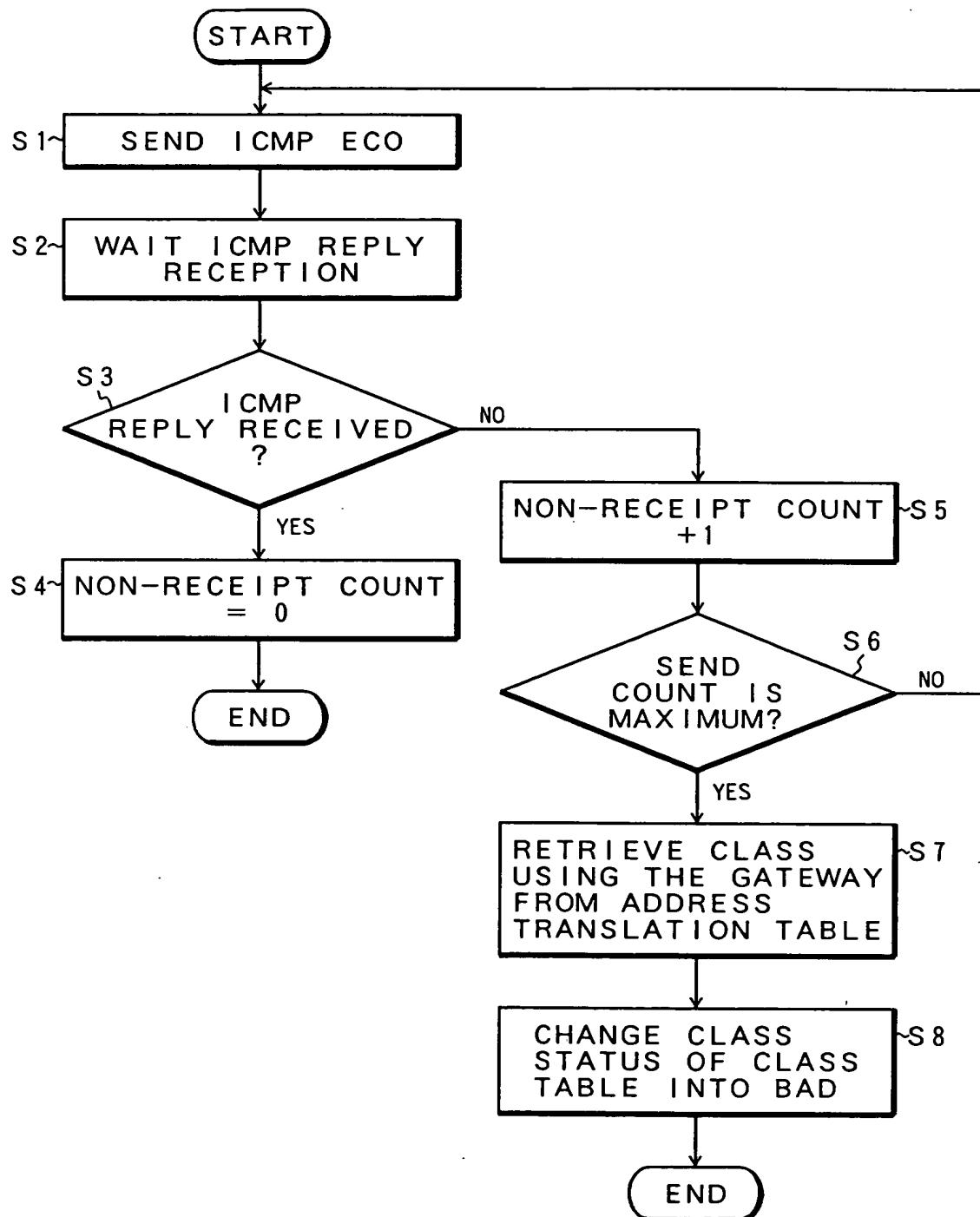


FIG. 18

